

BRIDGE CONSISTS OF

- 2 - 95'-0" BULB TEE, 54 IN, PSC BEAM SPANS ----- SPECIAL DESIGN
- 3 - 140'-0" BULB TEE, 72 IN, PSC BEAM SPANS ----- SPECIAL DESIGN
- 2 - STEEL H PILE END BENTS ----- SPECIAL DESIGN
- 4 - CONCRETE INTERMEDIATE BENTS ----- SPECIAL DESIGN
- 4 - END POST AND GUARDRAIL ATTACHMENT DETAIL ----- GA. STD. 3054 (9-30-02)  
(L = 4'-0"; W = 1'-1"; H = 2'-8")  
(L = 6'-6"; W = 1'-1"; H = 2'-8")
- BAR BENDING DETAILS ----- GA. STD. 3901 (8-69)
- TYPICAL FILL DETAIL AT END OF BRIDGE ----- GA. STD. 9037 (9-99)

DRAINAGE DATA

DRAINAGE AREA ----- 1410.0 SQ. MI.

FLOOD FREQUENCY	DISCHARGE THRU BRIDGE	MEAN VELOCITY	AREA OF OPENING BELOW FLOODSTAGE	BACKWATER
25 YEAR	46,298 CFS	6.66 FPS	6,956 SQ FT	0.55 FT
100 YEAR	62,271 CFS	7.55 FPS	8,249 SQ FT	0.80 FT
500 YEAR	83,748 CFS	8.52 FPS	9,826 SQ FT	1.16 FT

TRAFFIC DATA

TRAFFIC ----- ADT = 900 (2013)  
ADT = 1,500 (2033)  
DHV = 135 (2033)

DESIGN SPEED ----- 55 MPH

TRUCKS ----- 5%

24 HR TRUCKS ----- 7%

DIRECTIONAL ----- 60/40

UTILITIES

NONE

GENERAL NOTES

- SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2001 EDITION, AND 2008 SUPPLEMENTAL SPECIFICATIONS AS MODIFIED BY CONTRACT DOCUMENTS.
- REINFORCING STEEL - PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL.
- CHAMFER - CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.
- TRAFFIC CONTROLS - SEE ROADWAY PLANS FOR TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.
- EXISTING BRIDGE PLANS - ORIGINAL BRIDGE PLANS MAY BE PURCHASED BY CONTACTING THE PLANS REPRODUCTION OFFICE AT (404) 347-0600. THE ORIGINAL BRIDGE WAS BUILT UNDER PROJECT NUMBER BA(3)85(6).
- WAITING PERIOD - DO NOT BEGIN WORK AT BENTS 1 AND 6 UNTIL THE COMPLETED END FILLS HAVE BEEN IN PLACE FOR AN ESTIMATED PERIOD OF 60 DAYS.
- FOUNDATION BACKFILL MATERIAL - PLACE 1'-0" OF TYPE II FOUNDATION BACKFILL MATERIAL UNDER EACH FOOTING AT BENT 2. THE QUANTITY IS BASED ON THE PLAN FOOTING DIMENSIONS PLUS 2'-0".
- PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.
- PILE POINTS - REINFORCE ALL PILE TIPS AT BENT 1 IN ACCORDANCE WITH SECTIONS 520 AND 855 OF THE GEORGIA DOT SPECIFICATIONS.
- DRIVING DATA PILES - ONE DRIVING DATA PILE SHALL BE REQUIRED AT EACH OF BENTS 2 AND 6.
- SMOOTH DOWEL BARS - PLACE SMOOTH DOWEL BARS 3/4" IN FORMED 3" DIAMETER X 12" DEEP HOLES AND GROUT IN PLACE SIMILAR TO ANCHOR BOLTS, SEE SUB-SECTION 501.3.05.B.3 OF THE GEORGIA DOT SPECIFICATIONS. STIRRUPS MAY BE SHIFTED SLIGHTLY TO CLEAR FORMED HOLES.
- ▲ DECK DRAIN SYSTEM - USE DECK DRAIN COLLECTOR PIPES, DOWNSPOUTS AND FITTINGS CONSISTING OF SCHEDULE 40 PVC PIPE MEETING REQUIREMENTS OF ASTM D1785 AND D2466. CONNECT FITTINGS USING SOLVENT CEMENT. PROVIDE ANVIL 282, AAA TECHNOLOGY 912, OR APPROVED EQUAL CONCRETE INSERTS. PROVIDE HANGERS AT 6'-0" MAXIMUM SPACING AND AS SHOWN IN THE PLANS. ALL COSTS FOR MATERIALS AND INSTALLATION OF DECK DRAIN SYSTEM SHALL BE INCLUDED IN THE LUMP COST FOR "DECK DRAIN SYSTEM".
- STANDARD PLAN MODIFICATION - MODIFY THE APPROACH SLAB STANDARD TO INCREASE THE 3/4" EXPANSION JOINT SHOWN BETWEEN THE APPROACH SLAB AND THE BACK FACE PAVING REST AND END POST TO 1 1/4" AT BENT 1. SEE ROADWAY PLANS FOR APPROACH SLAB PAYMENT.
- GROOVED CONCRETE - GROOVE THE ENTIRE LENGTH OF THE BRIDGE TRANSVERSELY AS PER SUB-SECTION 500.3.05.T.9.C OF THE GEORGIA DOT SPECIFICATIONS.
- WELDING - ALL WELDING ON GEORGIA DOT PROJECTS SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE OFFICE OF MATERIALS AND RESEARCH. USE ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING.
- EXISTING BRONZE PLAQUES - CAREFULLY REMOVE THE EXISTING BRONZE NAME PLAQUES FROM THE EXISTING BRIDGE. CLEAN AND INSTALL THE PLAQUES ON THE END POSTS AS DIRECTED BY THE ENGINEER. INCLUDE THE COST OF REMOVING, CLEANING, AND INSTALLING BRONZE NAME PLAQUES IN THE OVERALL BID SUBMITTED.
- SALVAGE MATERIAL - REMOVE PLAQUES LOCATED ON EXISTING BRIDGE AND RESET THEM ON THE NEW BRIDGE. COST FOR REMOVING AND RESETTING PLAQUES SHALL BE INCLUDED IN THE PRICE BID FOR "REMOVING OF EXISTING BR, STA - 18+26". NO OTHER MATERIAL REMOVED FROM THE EXISTING STRUCTURE SHALL BE SALVAGED FOR USE BY THE GEORGIA DOT.
- INCIDENTAL ITEMS - INCLUDE THE COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS IN THE OVERALL BID SUBMITTED. THIS INCLUDES THE COST OF WATERPROOFING, JOINT FILLERS, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

DESIGN DATA

- SPECIFICATIONS ----- AASHTO 17TH EDITION, 2002  
(DESIGNED FOR SEISMIC PERFORMANCE CATEGORY A)
- TYPICAL HS20-44 AND/OR MILITARY LOADING ----- IMPACT ALLOWED
- FUTURE PAVING ALLOWANCE ----- 30 LBS PER SQ FT
- CONCRETE: SUPERSTRUCTURE ----- CLASS AA, f'c = 3,500 PSI  
PSC BEAMS ----- CLASS AAA, f'c = SEE BEAM SHEETS  
PSC BEAM ALLOWABLE TENSION ----- SEE BEAM SHEETS  
SUBSTRUCTURE ----- CLASS AA, f'c = 3,500 PSI
- REINFORCEMENT STEEL: ----- GRADE 60, fy = 60,000 PSI
- PRETENSIONING STRANDS: ----- fs = 270,000 PSI

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
217-0203	5	CY	FOUND BKFILL MATL, TP II
211-0300	36	CY	BRIDGE EXCAVATION, STREAM CROSSING
500-0100	2033	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 (652)
500-2100	1208	LF	CONCRETE BARRIER
500-3002	186	CY	CLASS AA CONCRETE
507-9030	751	LF	PSC BEAMS, AASHTO, BULB TEE, 54 IN, BR NO - 1
507-9032	2085	LF	PSC BEAMS, AASHTO, BULB TEE, 72 IN, BR NO - 1
511-1000	35716	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (147721)
520-0589	6	EA	H-PILE POINTS, HP 14 X 89
520-1147	180	LF	PILING IN PLACE, STEEL H, HP 14 X 73
520-1151	540	LF	PILING IN PLACE, STEEL H, HP 14 X 89
520-4147	1	EA	LOAD TEST, STEEL H, HP 14 X 73 (IF REQD)
520-4151	1	EA	LOAD TEST, STEEL H, HP 14 X 89 (IF REQD)
524-0010	188	LF	DRILLED CAISSON - 54 IN
540-1101	LUMP	LS	REMOVAL OF EXISTING BR, STA NO - 18+26
544-1000	LUMP	LS	DECK DRAIN SYSTEM, BR NO - 1
603-2024	3170	SY	STN DUMPED RIP RAP, TP I, 24 IN
603-7000	3170	SY	PLASTIC FILTER FABRIC

BRIDGE NO. 1

**JBT** **J.B. Trimble, Inc.**  
2550 Heritage Ct, SE, Suite 250  
Atlanta GA 30339-3062  
(770) 952-1022

GEORGIA  
DEPARTMENT OF TRANSPORTATION  
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

GENERAL NOTES  
CR 172 (POBIDDY ROAD) OVER FLINT RIVER

TALBOT/UPSON COUNTIES BHSLB-0656-00(002)

SCALE: NO SCALE U.N.O. AUGUST 2006

DRAWING NO. 35-02	BY SHG	DESIGNED SHG	CHECKED MCD	REVIEWED RJS
BRIDGE SHEET 2 OF 20	DATE 10/10/2012	DRAWN SHG	DESIGN GROUP EJC	APPROVED PVL